

**REDACTED**

## **Phase I Environmental Site Assessment**

**USEPA Brownfields Assessment for Petroleum of Village Creek Watershed**

**22<sup>nd</sup> Avenue Baptist Church Lot**

**2614 22<sup>nd</sup> Avenue North**

**Birmingham, Jefferson County, Alabama**

**Parcel ID No. 22-24-2-008-003.000**

**ACRES ID No. 152462**

**USEPA Cooperative Agreement No. BF-95460310-0**

**December 7, 2012**

**Terracon Project No. E1117025**



**Prepared for:**  
**Freshwater Land Trust**  
**Birmingham, Alabama**

**Prepared by:**  
**Terracon Consultants, Inc.**  
**Birmingham, Alabama**

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**Geotechnical ■ Environmental ■ Construction Materials ■ Facilities**

December 7, 2012



Freshwater Land Trust  
2308 First Avenue North  
Birmingham, Alabama 35203

Attention: Ms. Valerie Wilson

Re: Phase I Environmental Site Assessment  
22<sup>nd</sup> Avenue Baptist Church Lot  
2614 22<sup>nd</sup> Avenue North  
Birmingham, Jefferson County, Alabama  
Parcel ID No. 22-24-2-008-003.000  
ACRES ID No. 152462  
USEPA Cooperative Agreement No. BF-95460310-0  
Terracon Project No. E1117025

Dear Ms. Wilson:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment report for the above-referenced site. This assessment was performed in accordance with *Task Order #6 – Phase I Environmental Site Assessments*, dated March 13, 2012; the authorization of services under *Brownfields Assessment for Petroleum of Village Creek Watershed – Agreement for Services*, dated January 27, 2011; and the *Brownfields Assessment – Cooperative Agreement Work Plan*, dated June 1, 2010.

We appreciate the opportunity to perform these services for you. Please contact us if you have questions regarding this information or if we can provide any other services.

Sincerely,  
**Terracon Consultants, Inc.**

B. Kyle Haggard  
Environmental Scientist

Leslie Noble, AL-PG #111  
Manager, Environmental Services

Cc: Mr. David Champagne; USEPA Region 4  
Mr. Larry Norris; Alabama Department of Environmental Management

Attachments



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Geotechnical



Environmental



Construction Materials



Facilities

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## COMMON ACRONYMS <sup>1</sup>

ACM	Asbestos containing material
AST	Aboveground storage tank
ASTM	American Society for Testing and Materials
AUL	Activity and use limitation
BGS	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CAWP	Brownfields Assessment Cooperative Agreement Workplan, revised March 11, 2010
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
EPA	United States Environmental Protection Agency
GSA	Geological Survey of Alabama
HREC	Historical recognized environmental condition
LUST	Leaking underground storage tank
MCL	Maximum contaminant level
MSDS	Material safety data sheet
NGVD	National Geodetic Vertical Datum
NOV	Notice of violation
NPL	National Priority List
NRCS	USDA Natural Resource Conservation Service
OSHA	Occupational Safety and Health Administration
PAH	Polynuclear aromatic hydrocarbons
PCB	Poly-chlorinated biphenyl
PSV	Preliminary Screening Value
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
SPCC	Spill Prevention, Control and Countermeasure
SWPPP	Stormwater pollution prevention plan
TEPH	Total extractable petroleum hydrocarbons
TPH	Total petroleum hydrocarbons
TVPH	Total volatile petroleum hydrocarbons
TRI	Toxic release inventory
TSCA	Toxic Substances Control Act
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground storage tank
VCP	Voluntary cleanup program
VOC	Volatile organic compound

### Units of measure

sq ft or ft <sup>2</sup>	square feet
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/l	micrograms per liter
ppb	parts per billion
ppm	parts per million
pCi/L	picocuries per liter

<sup>1</sup> An additional list of acronyms and definitions is included in Appendix B.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**22<sup>ND</sup> AVENUE BAPTIST CHURCH LOT**  
**2614 22<sup>ND</sup> AVENUE NORTH**  
**BIRMINGHAM, JEFFERSON COUNTY, ALABAMA**  
**Parcel ID No. 22-24-2-008-003.000**  
**ACRES ID No. 152462**  
**USEPA Cooperative Agreement No. BF-95460310-0**  
**Terracon Project Number: E1117025**  
**Report Date: December 7, 2012**

## **EXECUTIVE SUMMARY**

This Phase I ESA was performed in accordance with *Task Order #6 – Phase I Environmental Site Assessments*, dated March 13, 2012; the authorization of services under *Brownfields Assessment for Petroleum of Village Creek Watershed – Agreement for Services*, dated January 27, 2011; and the *Brownfields Assessment – Cooperative Agreement Work Plan*, dated June 1, 2010, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Ms. Leslie Noble, Environmental Professional. Mr. Stephen T. Howard performed the site reconnaissance on October 16, 2012.

A cursory summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- The site is located at 2614 22<sup>nd</sup> Avenue North Birmingham, Jefferson County, Alabama. The site comprises 0.4 acre parcel of land identified by the Jefferson County Tax Assessor's office as Parcel 22-24-2-008-003.000. The site is currently a concrete parking lot.
- Based on a review of historical information, the site appears to have been residential housing before 1951. According to historical information acquired from the historical archives of the Birmingham Public Library, the site was occupied by a filling station as early as 1962. Sanborn maps provided by EDR show a filling station and car wash in 1969. The building was removed sometime between 1997 and 2006 based on observations of historical topographical maps. The possible on-site USTs and possible hydraulic lifts represent RECs in connection with the site.
- Adjoining and surrounding properties consist of residential properties to the south and west, 22<sup>nd</sup> Avenue Baptist Church to the east followed by residential properties, and a vacant lot followed by railroad tracks and Village Creek to the north.
- Based on a review of the environmental regulatory database report, 19 regulated facilities are located within the ASTM-specified search distances of the site. Based on apparent



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topographic gradient, distance from the site, and/or regulatory status, none of the facilities appear to represent a REC in connection with the site.

- In accordance with the *Brownfields Assessment – Cooperative Agreement Work Plan*, dated June 1, 2010 (CAWP), the following non-scope (per ASTM E 1527-05) items were evaluated by visual observations, a limited assessment, and/or records review only: asbestos-containing materials (ACM), mold, radon, lead-based paint (LBP), lead in drinking water, wetlands, threatened and endangered (T&E) species, vapor intrusion, and cultural resources.
- In accordance with the CAWP, Terracon performed a visual assessment for suspect ACM. Terracon did not identify suspect ACM on the site; no structures are located on the site.
- In accordance with the CAWP, Terracon performed a visual assessment for obvious indications of significant water infiltration and visible mold growth. No structures are located on the site.
- In accordance with the CAWP, Terracon reviewed the *Radon in Alabama* study prepared by the Alabama Cooperative Extension to identify the site location in terms of potential for average indoor radon concentrations. The study indicated the site is located in EPA Zone Two, which has a predicted average indoor screening level between two and four picocuries per liter (pCi/L). Based on this information, the site is considered to have a moderate potential for the presence of indoor concentrations of radon gas. However, since future site use is unlikely to be residential, based on zoning, radon potential is not considered a REC at this time.
- In accordance with the CAWP, Terracon performed a limited assessment for lead-based paint (LBP). No structures are located on the site.
- In accordance with the CAWP, the most recent water quality report from the public drinking water supplier was reviewed to determine if water quality meets the applicable lead standard. The site relies on drinking water provided by the Birmingham Water Works Board, the local municipal water supplier. Based on a review of the 2011 Annual Water Quality Report, lead was below detection limits in drinking water provided by the Birmingham Water Works Board.
- In accordance with the CAWP, Terracon reviewed United States Fish and Wildlife Service (USFWS) online mapping database to evaluate the documented presence of apparent Waters of the U.S. and jurisdictional wetlands, as defined and regulated by federal authority under 33 CFR Parts 320-330. Presence of these waters and/or wetlands was not noted onsite. However, Village Creek is located approximately 600 feet north of the site. Village

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Creek is considered Waters of the U.S. and is potentially subject to federal permitting authority with the U.S. Army Corps of Engineers.

- In accordance with the CAWP, literature and agency file searches were conducted to identify the potential occurrence of federally listed threatened and endangered (T&E) species on the site. Based on site observations and literature and agency file searches, the site is not likely to support habitat for the listed species.
- In accordance with the CAWP, a literature review was conducted to identify the potential occurrence of vapor intrusion sources on the site. No documented evidence of a subsurface volatile plume on the site was found during the literature review. However, the site is a former gasoline filling station. Therefore the possibility of vapor intrusion potential exists.
- In accordance with the CAWP, literature and agency file review was conducted to identify the potential occurrence of cultural resources on the site. Cultural resources consist of both historic properties and archaeological artifacts. No obvious archaeological resources or structures of historical significance were observed on the site, and the file search did not identify cultural resources onsite.

### **Recommendations**

Based on the scope of services, limitations, and findings of this assessment, Terracon did identify RECs which, in our opinion, warrant additional investigation at this time. RECs identified in connection with the site include:

- The former onsite USTs at the filling station
- Possible hydraulic lifts

Terracon recommends that additional investigation, in the form of a Phase II ESA, be conducted at the site.



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**BIRMINGHAM, JEFFERSON COUNTY, ALABAMA**  
**Parcel ID No. 22-24-2-008-003.000**  
**ACRES ID No. 152462**  
**USEPA Cooperative Agreement No. BF-95460310-0**  
**Terracon Project Number: E1117025**  
**Report Date: December 7, 2012**

## **1.0 INTRODUCTION**

### **1.1 Site Description**

<b>Site Description</b>	
<b>Site Name</b>	22 <sup>nd</sup> Avenue Baptist Church Lot
<b>Site Location/Address</b>	2614 22 <sup>nd</sup> Avenue North, Birmingham, Jefferson County, Alabama
<b>Parcel ID Number</b>	22-24-2-008-003.000
<b>ACRES Number</b>	152462
<b>Land Area</b>	Approximately 0.4 acres

The site location is depicted on Figure 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. A Site Vicinity Map of the site and adjoining properties is included as Figure 2 of Appendix A. Acronyms and terms used in this report are described in Appendix B.

### **1.2 Scope of Services**

This Phase I Environmental Site Assessment (ESA) was performed in accordance with *Task Order #9 – Phase I Environmental Site Assessments*, dated June 4, 2010 (and associated addendums), and the authorization of services under *Brownfield Assessment Project – Agreement for Services*, authorized January 4, 2010, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, user-provided information, and a visual, noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are evident from reviewing the applicable scope of services and the report text.

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In accordance with the *Brownfields Assessment – Cooperative Agreement Work Plan*, dated June 1, 2010 (CAWP), the following additional services were performed:

- Limited visual observations for asbestos-containing materials
- Limited visual observations for mold
- Limited radon records review
- Limited assessment for lead-based paint
- Limited lead in drinking water records review
- Limited wetlands records review
- Limited threatened/endangered species records review
- Limited vapor intrusion records review
- Limited historical properties/archeological resources records review

### 1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

### 1.4 Additional Scope Limitations, ASTM Deviations and Significant Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, business environmental risk evaluations, or other services not particularly identified and discussed herein. Reasonable attempts were made to obtain



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information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request.
- Pertinent documents are referred to in the text of this report, and a separate reference section has not been included.

An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

### 1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of the Freshwater Land Trust. Use or reliance by any other party is prohibited without the written authorization of the Freshwater Land Trust and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

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Continued viability of this report is subject to ASTM E 1527-05 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E 1527-05.

### **1.6 Client Provided Information**

Prior to the site visit, Ms. Valerie Wilson of the Freshwater Land Trust provided the following information. Please refer to Appendix C for a copy of the User Questionnaire.

#### **1.6.1 Specialized Knowledge or Experience**

Specialized knowledge or experience material to RECs in connection with the site was requested. This information has not been received as of the issuance date of the report, and unless notified otherwise, we assume the client is evaluating this information outside the context of this report.

#### **1.6.2 Actual Knowledge of Environmental Liens or AULs**

Actual knowledge of any environmental liens or AULs encumbering the site or in connection with the site was requested. This information has not been received as of the issuance date of the report, and unless notified otherwise, we assume the client is evaluating this information outside the context of this report.

#### **1.6.3 Reason for Significantly Lower Purchase Price**

Actual knowledge of a significantly lower purchase price due to the presence of hazardous substances or petroleum products in connection with site was requested. This information has not been received as of the issuance date of the report, and unless notified otherwise, we assume the client is evaluating this information outside the context of this report.

#### **1.6.4 Commonly Known or Reasonably Ascertainable Information**

Commonly known or reasonably ascertainable information within the local community about the site that is material to RECs in connection with the site was requested. This information has not been received as of the issuance date of the report, and unless notified otherwise, we assume the client is evaluating this information outside the context of this report.

#### **1.6.5 Obvious Indicators of Contamination at the Site**

Information about obvious indicators that point to the presence or likely presence of contamination at the site was requested. This information has not been received as of the



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issuance date of the report, and unless notified otherwise, we assume the client is evaluating this information outside the context of this report.

## 2.0 PHYSICAL SETTING

### Physical Setting

PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		SOURCE
<b>Topography</b> (Refer to Appendix A, Figure 1 – Topographic Map)		
<i>Site Elevation</i>	Approximately 570 feet (NGVD)	USGS Topographic Map, <i>Birmingham, Alabama</i> , 1997
<i>Surface Runoff/ Topographic Gradient</i>	Generally downward towards the north-northwest based on site observations	
<i>Closest Surface Water</i>	Village Creek is approximately 600 feet to the north.	
<b>Soil Characteristics</b>		
<i>Soil Type</i>	Decatur-Urban Land Complex	USDA <i>Soil Survey of Jefferson County, Alabama</i> , issued August 1982
<i>Description</i>	This mapping unit consists of areas with 2 to 8 percent slopes with Decatur and similar soils at 45 percent, Urban land at 40 percent, and minor components at 1 percent. The typical profile is 0 to 7 inches silt loam, 7 to 72 inches clay, and 72 to 76 inches clay. This complex is well drained and has a high water capacity.	
<b>Geology/Hydrogeology</b>		
<i>Formation</i>	Ketona Dolomite Formation	GSA <i>Geologic Map of Alabama</i> , Map 220, dated 1988
<i>Description</i>	Conasauga Formation is light to medium-gray thick-bedded coarsely crystalline dolomite.	
<i>Estimated Depth to First Occurrence of Ground water</i>	Less than 80 inches	USGS Topographic Map <i>Birmingham North, Alabama</i> dated 1959, photorevised in 1970 and 1978
<i>Primary Aquifer</i>	Area of recharge and susceptibility to surface contamination for the Knox-Shady aquifer.	USGS <i>Geohydrology and Susceptibility of Major Aquifers to Surface Contamination in Alabama, Area 4</i> , dated 1989
<i>*Hydrogeologic Gradient</i>	Not known - may be inferred to be parallel to topographic gradient (primarily to the north-northwest).	

\* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

### 3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources for indications of RECs. A summary of the historical review is included in Section 3.12. Copies of selected historical documents are included in Appendix C.

#### 3.1 Historical Topographic Maps

Readily available historical USGS topographic maps were reviewed to identify RECs in connection with the site. Reviewed historical topographic maps are summarized in the following table.

- *Birmingham Coal District, Alabama*, dated 1904 (1:62,500)
- *Birmingham Special, Alabama*, dated 1906 (1:62,500)
- *Birmingham, Alabama*, dated 1907 (1:125,000)
- *Birmingham North, Alabama*, dated 1959 (1:24,000)
- *Birmingham North, Alabama*, dated 1970, photorevised from 1959 (1:24,000)
- *Birmingham North, Alabama*, dated 1978, photorevised from 1959 (1:24,000)
- *Gardendale, Alabama*, dated 1987 (1:50,000)
- *Birmingham North, Alabama*, dated 1997 (1:24,000)

**Historical Topographic Maps**

Direction	Description
Site	Depicted as located within a "built up" area with only landmark structures depicted (1909, 1906, 1907, 1959, 1970, 1978, 1987, and 1997).
North	Depicted as located within a "built up" area with only landmark structures depicted, Village Creek and railroad tracks (1909, 1906, 1907, 1959, 1970, 1978, 1987, and 1997).
East	Depicted as located within a "built up" area with only landmark structures depicted and railroad tracks (1909, 1906, 1907, 1959, 1970, 1978, 1987, and 1997).
South	Depicted as located within a "built up" area with only landmark structures depicted (1909, 1906, 1907, 1959, 1970, 1978, 1987, and 1997).
West	Depicted as located within a "built up" area with only landmark structures depicted (1909, 1906, 1907, 1959, 1970, 1978, 1987, and 1997).

#### 3.2 Historical Aerial Photographs

Selected historical aerial photographs from Environmental Data Resources, Inc. (EDR) were reviewed at approximately 10 to 15 year intervals, if readily available, to obtain information concerning the history of development on and near the site. Evaluation of these aerials may be limited by a photo's quality and scale. Selected photographs are summarized in the following table.



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- EDR, panel # 33086-E7, 1941, 1" = 500'
- EDR, panel # 33086-E7, 1947, 1" = 500'
- EDR, panel # 33086-E7, 1951, 1" = 500'
- EDR, panel # 33086-E7, 1956, 1" = 500'
- EDR, panel # 33086-E7, 1967, 1" = 500'
- EDR, panel # 33086-E7, 1970, 1" = 750'
- EDR, panel # 33086-E7, 1977, 1" = 1000'
- EDR, panel # 33086-E7, 1981, 1" = 1000'
- EDR, panel # 33086-E7, 1988, 1" = 1000'
- EDR, panel # 33086-E7, 1992, 1" = 750'
- EDR, panel # 33086-E7, 1997, 1" = 500'
- EDR, panel # 33086-E7, 2006, 1" = 500'

### Historical Aerial Photographs

Direction	Description
Site	Depicted as a developed area (1941, 1947, 1951, 1956, 1967, 1970, 1977, 1981, 1988, 1992, and 1997). Depicted as a vacant lot (2006).
North	Depicted as a developed area (1941, 1947, 1951, 1956, 1967, 1970, 1977, and 1981). Depicted as an undeveloped area (1988, 1992, 1997, and 2006).
East	Depicted as a residentially developed area (1941, 1947, 1951, 1956, 1967, 1970, 1977, 1981, 1988, 1992, 1997, and 2006).
South	Depicted as residentially developed area (1941, 1947, 1951, 1956, 1967, 1970, 1977, 1981, 1988, 1992, 1997, and 2006).
West	Depicted as residentially developed area (1941, 1947, 1951, 1956, 1967, 1970, 1977, 1981, 1988, 1992, 1997, and 2006).

### 3.3 Historical City Directories

The Polk's city directories used in this study were made available through EDR (selected years reviewed: 1915 through 2008) and were reviewed at approximate five-year intervals, if readily available. Since these references are copyright protected, reproductions are not provided in this report. The current street address for the site was identified as 2614 22<sup>nd</sup> Avenue North. Historically, the site has been 2602, 2604, and 2612 22<sup>nd</sup> Avenue North and 2605 and 2607 22<sup>nd</sup> Alley North. Listings for the site address and the five historical addresses for the site are summarized in the following tables.

#### Historical City Directories

Year	Site Listing - 2614 22 <sup>nd</sup> Avenue North
2006	Twenty Second Avenue Baptist Church
2001	Twenty Second Avenue Baptist Church

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Year	Site Listing - 2614 22 <sup>nd</sup> Avenue North
1996	Twenty Second Avenue Baptist Church
1991	Twenty Second Avenue Baptist Church
1986	Twenty Second Avenue Baptist Church
1981	Twenty Second Avenue Baptist Church
1976	Twenty Second Avenue Baptist Church
1971	Twenty Second Avenue Baptist Church
1967	Twenty Second Avenue Baptist Church
1961	Twenty Second Avenue Baptist Church
1956	Twenty Second Avenue Baptist Church
1952	Twenty Second Avenue Baptist Church
1946	Twenty Second Avenue Baptist Church
1940	Twenty Second Avenue Baptist Church
1935	Twenty Second Avenue Baptist Church
1930	Twenty Second Avenue Baptist Church
1920	Twenty Second Avenue Baptist Church

Year	2602 22 <sup>nd</sup> Avenue North
1952	
1925	

Information Redacted pursuant to 5 U.S.C.  
Section 552 (b)(6), Personal Privacy

Year	2604 22 <sup>nd</sup> Avenue North
1961	North Birmingham Upholstery
1956	Vacant
1952	
1946	
1940	
1935	Vacant
1930	Vacant
1925	

Information Redacted pursuant to 5 U.S.C.  
Section 552 (b)(6), Personal Privacy

Year	2612 22 <sup>nd</sup> Ave North
2001	Not Verified
1996	Twenty Second Avenue Baptist Church
1991	Twenty Second Avenue Baptist Church

Information Redacted pursuant to 5 U.S.C.  
Section 552 (b)(6), Personal Privacy

CITIZEN NAMES



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**REDACTED**  
**Terracon**

Year	2612 22 <sup>nd</sup> Ave North
1986	G & S Tire, Twenty Second Avenue Baptist Church
1981	Twenty Second Avenue Baptist Church
1976	Twenty Second Avenue Baptist Church
1971	Twenty Second Avenue Baptist Church
1967	
1961	
1956	Information Redacted pursuant to 5 U.S.C. Section 552 (b)(6), Personal Privacy
1952	
1946	
1935	
1930	
1925	Twenty Second Avenue Baptist Church

Year	2605 22 <sup>nd</sup> Alley North
1930	

Year	2607 22 <sup>nd</sup> Alley North
1991	
1986	
1981	No Return
1976	
1971	
1967	
1961	
1956	Information Redacted pursuant to 5 U.S.C. Section 552 (b)(6), Personal Privacy
1952	
1946	
1940	
1935	
1930	
1925	
1920	

Information Redacted pursuant to 5 U.S.C.  
Section 552 (b)(6), Personal Privacy

Citizen NAMES

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REDACTED

Terracon

### 3.4 Historical Fire Insurance Maps

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn Maps were available for the site and are summarized below.

Historical Fire Insurance Maps

Direction	Description
Site	Not identified (1902). Vacant lot (1911). Residential housing (1951). Filling Station (1969).
North	Not identified (1902). Vacant lot (1911). Residential housing (1951 and 1969).
East	Not identified (1902). Vacant lot followed by residential housing (1911). 22 <sup>nd</sup> Avenue Baptist Church followed by residential housing (1951 and 1969).
South	Residential housing (1902 and 1911). Filling station and residential housing (1951 and 1969).
West	Not identified (1902). Residential housing (1911). Electric substation and residential housing (1951). Electric substation and used auto sales followed by residential housing (1969).

### 3.5 Property Tax File Information

Based on a review of information obtained through Jefferson County tax records, the current site owner is the 22<sup>nd</sup> Avenue Baptist Church. Birmingham Public Library Archival information from the Jefferson County Board of Equalization files indicate a gasoline filling station on the site as early as 1962.

### 3.6 Title Search

County deed records were reviewed by Frank P. May, an independent title abstractor, of Atlanta, Georgia, to obtain a chain-of-title for the site. Ownership records were reviewed back to 1969. The title information is included in Appendix C.

Based on a review of the title provider's research, the site was owned by Alex Kontos Fruit Co., Inc. and sold to \_\_\_\_\_ and \_\_\_\_\_ in 1961. The property was sold to \_\_\_\_\_ and \_\_\_\_\_ in 1966, and then \_\_\_\_\_ and \_\_\_\_\_ in 1968. In 1973, the property was acquired by \_\_\_\_\_ and \_\_\_\_\_ by their Attorney in Fact. The Twenty-Second Avenue Baptist Church acquired the property from \_\_\_\_\_ and \_\_\_\_\_ in 1975. The current owner is Twenty-Second Avenue Baptist Church. The deed record did not indicate past or present property use on the site.

### 3.7 Environmental Liens

Environmental lien records recorded against the site were not provided by the client; however, performance of a review of these records was included as part of the scope of services by

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engaging Frank P. May. Based on a review of the title provider's research, environmental lien records were not identified.

### 3.8 Building Department Records

Terracon reviewed building department records at the Jefferson County Board of Equalization in the Jefferson County Courthouse for information indicating RECs on the site. No environmentally pertinent information was available from the Building Department records.

### 3.9 Zoning/Land Use Records

According to the City of Birmingham, the site is zoned for medium density residential (R4A) and general business (CB2).

### 3.10 Historical Interviews

The individuals listed in the following table were interviewed regarding historical use of the site.

Interviewee			
Interviewer	Interviewee/Phone #	Title	Date/Time
B. Kyle Haggard	Donald Pickens / (205) 324-3907	Site Contact	November 5, 2012 / 1400

Terracon attempted to contact Mr. Pickens several times by phone regarding environmental records or information indicating environmental concerns for the site. At the issuance of this report, a response had not been received from Mr. Pickens.

### 3.11 Prior Report Review

Previous environmental reports, permits and registrations, or geotechnical reports for the site were not provided by the client for Terracon to review.

### 3.12 Historical Use Information Summary

Based on a review of the historical information, the site appears to have been residential housing before 1951. Sanborn maps provided by EDR, show a filling station and car wash in 1969. The building was removed sometime between 1997 and 2006 based on observations of historical topographical maps. The possible on-site USTs and possible hydraulic lifts represent RECs in connection with the site.



## 4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Also, groundwater flow direction and the depth to shallow groundwater may be influenced by extracting (i.e. public water supply) wells. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

### 4.1 Federal and State/Tribal Databases

Listed in the following table are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

**Federal and State Databases**

Database	Description	Radius (Miles)	Listings
<u>Federal</u>			
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	0
NPL (Delisted)	The NPL (Delisted) refers to facilities that have been removed from the NPL.	0.5	0
CERCLIS	The CERCLIS database is a compilation of facilities which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980.	0.5	3
CERCLIS/NFRAP	CERCLIS/NFRAP refers to facilities that have been removed and archived from EPA's inventory of CERCLA sites.	0.5	3
RCRA CORRACTS/ TSD	The EPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	1



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Database	Description	Radius (Miles)	Listings
<b>RCRA Non-CORRACTS/ TSD</b>	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	1
<b>RCRA Generators</b>	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	Site and adjoining properties	1
<b>IC / EC</b>	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	Site	0
<b>ERNS</b>	The Emergency Response Notification System (ERNS) is a listing compiled by the EPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0
<u>State/Tribal</u>			
<b>SHWS</b>	Hazardous substance sites, which pose a threat to health and the environment, which will be cleaned up utilizing the Hazardous Substance Cleanup Fund. State/tribal equivalent CERCLIS.	0.5	3
<b>SWF / LF</b>	State and/or Tribal database of solid waste facilities located within Alabama. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.	0.5	0
<b>LUST/LAST</b>	State and/or Tribal database of leaking underground storage tanks in State of Alabama.	0.5	5
<b>UST/AST</b>	State and/or Tribal database of registered storage tanks in the State of Alabama which may include the owner and location of the tanks.	Site and adjoining properties	7
<b>IC/EC</b>	State and/or Tribal equivalent to the Federal IC / EC database list.	Site	0
<b>VCP</b>	State and/or Tribal facilities included as Voluntary Cleanup Program sites.	0.5	1
<b>Brownfields</b>	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.	0.5	0
<b>SWRCY</b>	State and/or tribal listing of recycled/recovered materials processors	0.5	0

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In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the subject site. Additional discussion for selected facilities may follow the summary table.

**Listed Facilities**

<b>Facility Name and Location</b>	<b>Estimated Distance/Direction/Gradient</b>	<b>Database Listings</b>
National Tire and Salvage Fire 2900 21 <sup>st</sup> Avenue North	0.25 miles / East / Upgradient	CERCLIS
Alagasco Property 233 Shuttlesworth Drive	0.35 miles / South / Upgradient	CERCLIS
US Lands Property 2336 Shuttlesworth Drive	0.45 miles / Northeast / Downgradient	CERCLIS
Nucor Steel Birmingham, Inc 2301 FL Shuttlesworth D	0.34 miles / South / Upgradient	CERCLIS NFRAP
I-65 Quarry 2301 24 <sup>th</sup> Avenue	0.34 miles / West / Downgradient	CERCLIS NFRAP
Stabler Paint Manufacturing Co 2700 25 <sup>th</sup> Street North	0.47 miles / Northwest / Downgradient	CERCLIS NFRAP
US Pipe & Foundry Co PO Box 10406	0.82 miles / North-northeast / Upgradient	CORRACTS
Alabama Waste Services Site 2513 27 <sup>th</sup> Street North	0.28 miles / North / Downgradient	SHWS
Cahaba Investments, LLC 2301 24 <sup>th</sup> Avenue North	0.34 miles / West / Downgradient	SHWS, VCP
Transrail Partners, LLC 3101 27 <sup>th</sup> Avenue North	0.7 miles / Northeast / Downgradient	SHWS
Physician's Medical Center 1600 Carraway BLVD	0.49 miles / Southeast / Upgradient	LUST
Carraway Service Center 2433 26 <sup>th</sup> Street North	0.23 miles / North-northwest / Downgradient	LUST, UST
Colonial Fast Freight Lines 2513 27 <sup>th</sup> Street North	0.28 miles / North / Downgradient	LUST
Southern National Lease 2301 Finley BLVD	0.39 miles / West-northwest / Downgradient	LUST
US Mineral Products 2336 Huntsville Rd	0.45 miles / Northeast / Downgradient	LUST
Wavaho North Birmingham Station 1900 26 <sup>th</sup> Street North	0.22 miles / South-southeast / Upgradient	UST
Phillips 66 CO #010682 1900 26 <sup>th</sup> Street North	0.22 miles / South-southeast / Upgradient	UST
Aratex Services Inc 2312 25 <sup>th</sup> Street North	0.14 miles / West / Downgradient	UST
A-1 Food Mart 2216 24 <sup>th</sup> Street North	0.2 miles / West-southwest / Downgradient	UST



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Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
ST Dept Northern District 2413 27 <sup>th</sup> Street North	0.2 miles / North / Downgradient	UST
North Birmingham Chevron 2429 Carraway BLVD	0.23 miles / North-northwest / Downgradient	UST

### Physician's Medical Center

This facility had six steel USTs. Two steel 15,000-gallon diesel tanks were installed in 1967 and serve as fuel for emergency power generators. One 1,500-gallon diesel tank was installed in 1967 and removed in 1988. Information for tanks four and five are unknown. Tank six was an unleaded gasoline tank. A LUST was reported to ADEM in February 2001. The associated ADEM Incident Number is UST010207. The report addressed the closure of the piping associated with two-15,000 gallon USTs used to supply diesel fuel to emergency generators. According to e-file, Bhate Environmental, Inc. collected soil samples and groundwater samples for the four borings. A "no further action" was issued by ADEM in October 2002.

### Wavaho North Birmingham Station

This facility has three 8,000-gallon USTs installed in 1988. These steel tanks consisted of unleaded gasoline, mid-grade unleaded gasoline, and premium unleaded gasoline. Wavaho Oil Co, Inc. owned the USTs. No further information was available.

### Phillips 66 CO #010682

This facility had four USTs. Two 3,036-gallon fiberglass/plastic tanks that contained unleaded gasoline were installed in 1955 and removed 1976. One 560-gallon steel used oil tank was installed in 1955 and removed in 1976. One 4,038-gallon fiberglass/plastic tank contained unleaded gasoline and was installed in 1955 and removed in 1976. Phillips 66 Co. owned the USTs. No further information was available.

Based on regulatory status, distance from the site, and/or estimated topographical gradient, Terracon is of the opinion that the above-mentioned and remaining facilities listed in the EDR report do not appear to represent RECs with respect to the site at this time.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed 20 facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site. These facilities are listed in the database report in Appendix D.



## **4.2 Local Agency Inquiries**

### **4.2.1 Fire Department**

Ms. Lakesia Marshall of The Birmingham Fire Department was contacted regarding environmental records or information indicating environmental concerns for the site. At the issuance of this report, a response had not been received from the Fire Department.

### **4.2.2 Regional Pollution Control Agency**

The ADEM Birmingham Field Office was contacted by telephone regarding environmental records for the site. Mr. Jim Parker indicated that the site vicinity has been industrially utilized for many years. Mr. Parker was not aware of any site-specific environmental issues.

### **4.2.3 Regional Water Quality Agency**

The ADEM Birmingham Field Office was contacted by telephone regarding environmental water quality records for the site. Mr. Jim Parker stated that he was not aware of any environmental water quality concerns specifically associated with the site. Mr. Parker was familiar with several environmental water quality incidents that had caused fish-kills in Village Creek but did not think they had the potential to affect site conditions.

## **4.3 Records Review Summary**

Based on a review of the environmental regulatory database report, 19 regulated facilities are located within the ASTM-specified search distances of the site. Based on apparent topographic gradient, distance from the site, and/or regulatory status, none of the facilities appear to represent a REC in connection with the site.

## **5.0 SITE RECONNAISSANCE**

### **5.1 General Site Information**

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures located on the site. Figure 2 in Appendix A is a Site Vicinity Map. Photo documentation of the site at the time of the site reconnaissance is provided in Appendix E. Credentials of the individuals planning and conducting the site visit are included in Appendix F.

### General Site Information

Site Reconnaissance	
<i>Field Personnel</i>	Stephen T. Howard
<i>Reconnaissance Date</i>	October 16, 2012
<i>Weather Conditions</i>	Clear, 70s
<i>Site Contact/Title</i>	Donald Pickens, Owner Representative
<i>Site Name</i>	22 <sup>nd</sup> Avenue Baptist Church Lot
<i>Site Location/Address</i>	2614 22 <sup>nd</sup> Avenue North, Birmingham, Jefferson County, Alabama
<i>Land Area</i>	Approximately 0.4 acres
<i>Zoning</i>	Medium Density Residential (R4A) and General Business (CB2).
<i>Site Topographic Relief</i>	Generally toward the north-northwest
Site Utilities	
<i>Electricity</i>	Alabama Power
<i>Drinking Water</i>	Birmingham Water Works
<i>Wastewater</i>	Jefferson County
<i>Natural Gas</i>	Alagasco available

## 5.2 General Description of Site, Occupants and Operations

The site is located at 2614 22<sup>nd</sup> Avenue North Birmingham, Jefferson County, Alabama. The site comprises one parcel of land identified by the Jefferson County Tax Assessor's office as Parcel 22-24-2-008-003.000. The site is currently a parking lot for the adjacent Baptist church and contains the footprint of a former building.

## 5.3 Site Observations

The table below summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics		
Category	Item or Feature	Observed
<b>Site Operations, Processes, and Equipment</b>	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	X
	Dry cleaning	
	Photo processing	
	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	

Category	Item or Feature	Observed
	Heating and/or cooling systems	
	Other processes or equipment	
<b>Aboveground Chemical or Waste Storage</b>	Aboveground storage tanks	
	Drums, barrels and/or containers ≥ 5 gallons	
	MSDS	
	Underground storage tanks or ancillary UST equipment	X
<b>Underground Chemical or Waste Storage, Drainage or Collection Systems</b>	Sumps, cisterns, catch basins and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators	
	Pipeline markers	
	Interior floor drains	
	Pad or pole mounted transformers and/or capacitors	X
<b>Electrical Transformers/ PCBs</b>	Other equipment	
	Stressed vegetation	
<b>Releases or Potential Releases</b>	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
	Surface water bodies	
<b>Other Notable Site Features</b>	Quarries or pits	
	Wells	

## Site Operations, Processes, and Equipment

### Hydraulic lifts

Two possible hydraulic lift units were observed during the site reconnaissance. The possible lifts were located on the east boundary of the site. The possible lifts were not currently in use at the time of the site reconnaissance.

## Underground Chemical or Waste Storage, Drainage or Collection Systems

### Underground storage tanks or ancillary UST equipment

Surface indications of USTs were observed on the subject site during the site reconnaissance. Surface indications observed included the fill ports on the southwest boundary of the site.

## Electrical Transformers/PCBs

### Pad or pole mounted transformers and/or capacitors

Pole-mounted transformers were observed onsite during the site reconnaissance.



Transformers often contain dielectrical fluid which may contain PCBs and could be considered "PCB contaminated" (PCB content of 50-500 parts per million [ppm]). No information with regard to PCB content of the transformer fluid was observed on the pole-mounted transformers. No evidence of current or prior releases was observed in the vicinity of the transformers during the site reconnaissance.

#### 5.4 Interviews Conducted During Site Reconnaissance

The following individuals were interviewed regarding the presence or absence of the features listed in the table above.

**Interviewees**

Interviewer	Interviewee	Title	Date/Time
B. Kyle Haggard	Donald Pickens / (205) 324-3907	Site Contact	November 5, 2012 / 1400

Information obtained from Mr. Gordon Madden is discussed in Section 3.10.

#### 5.5 Site Reconnaissance Summary

The site is currently a parking lot for 22<sup>nd</sup> Avenue Baptist Church. The site has three fill ports and possible USTs on the southwest boundary of the site and possible hydraulic lifts were observed on the eastern boundary of the site. Pole mounted transformers were observed on the northeast boundary of the site.

### 6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized in the following table.

**Adjoining Properties**

Direction	Description
North	Vacant lots followed by railroad tracks and Village Creek
East	22 <sup>nd</sup> Avenue Baptist Church followed by residences
South	Residences
West	Residences

## **7.0 ADDITIONAL SERVICES**

In accordance with the CAWP, the following non-scope items, with respect to ASTM E 1527-05, were evaluated.

### **7.1 Limited Visual Observations for Asbestos**

In accordance with the CAWP, Terracon visually assessed the interior of the onsite buildings for suspect ACM. The limited visual observations were performed under the supervision of Mr. Stephen T. Howard, an AHERA-accredited and Alabama-certified asbestos inspector (Certification No. AIN0909159469). No samples of suspect ACM were collected or analyzed as part of the observations. The visual observations for suspect ACM were restricted to readily visible and accessible building materials. No suspect ACM was identified during site reconnaissance.

### **7.2 Limited Visual Observations for Mold**

In accordance with the CAWP, Terracon performed a visual assessment for obvious indications of significant water infiltration and visible mold growth. No structures are located on the site.

### **7.3 Limited Radon Records Review**

Radon is a naturally occurring radioactive gas produced through the natural decay of uranium to stable lead. It is odorless, tasteless, and invisible. Elevated concentrations of radon can be found in soils and rocks containing uranium, granite, shale, phosphate, and pitchblende. Locations of these materials are highly unpredictable. Elevated levels of radon may also be found in soils containing certain types of industrial wastes, such as the by-products from uranium or phosphate mining. Radon can accumulate inside structures at concentrations that may pose risks to human health. Indoor radon levels are influenced by building construction and the concentration of radon in the underlying soil.

In accordance with the CAWP, Terracon reviewed the *Radon in Alabama* study prepared by the Alabama Cooperative Extension to identify the site location in terms of potential for average indoor radon concentrations. The study indicated the site is located in EPA Zone One, which has a predicted average indoor screening level of greater than four picocuries per liter (pCi/L). The EPA recommends a guideline action level of 4.0 pCi/L for annual average indoor radon concentrations in residential properties. The action level is based on an exposure of 18 hours per day for 40 years. According to a U.S. Department of Energy environmental assessment, radon is much less of a concern in commercial/industrial buildings than in residential buildings as these buildings usually have mechanical ventilation and occupants are typically not in the buildings as many hours a week as they are in their homes. No action level has been established for commercial/industrial buildings or occupational exposure.



The average residential radon concentration for the site's Zip Code, 35234, is 1.16 pCi/L, and the maximum identified concentration is 2.30 pCi/L. The study included tests in 7 homes in Zip Code 35234, none of which exceeded the EPA action level.

Based on this information, the site is considered to have a potential for the presence of indoor concentrations of radon gas. However, testing would be required to evaluate site-specific concentrations of radon gas. Since subsequent site use is unlikely to be residential, based on zoning, radon potential is not considered an REC at this time.

#### **7.4 Limited Assessment for Lead-Based Paint**

In accordance with the CAWP, Terracon performed a limited assessment for lead-based paint (LBP). There were not any buildings identified on the site.

#### **7.5 Limited Lead in Drinking Water Records Review**

Lead is a toxic heavy metal that could be present in drinking water. Natural water usually contains very little lead. Contamination generally occurs in the water distribution system or in the supply pipes of the building. The EPA has established a maximum contaminant level (MCL) action level for lead concentrations in drinking water of 15 µg/l. The action level is defined as the concentration of lead in water, which if exceeded, triggers treatment or other requirements that a water system must follow.

In accordance with the CAWP, the most recent water quality report from the public drinking water supplier was reviewed to determine if water quality meets the applicable lead standard. No water sampling was included in this scope of service. The site relies on drinking water provided by the Birmingham Water Works Board, the local municipal water supplier. Based on a review of the 2011 Annual Water Quality Report, the sources of the City of Birmingham's water are the Black Warrior and Cahaba Basin. Based on a review of the Annual Water Quality Report, lead was below detection limits in drinking water provided by the Birmingham Water Works Board.

#### **7.6 Limited Wetland Records Review**

In accordance with the CAWP, Terracon reviewed the United States Fish and Wildlife Service (USFWS) online mapping database to determine if documented wetlands or other jurisdictional waters are present on the project site. This review may not identify state/locally-designated wetlands.

Wetlands as defined by EPA and the U.S. Army Corps of Engineers, in the *Federal Manual for Identifying and Delineating Jurisdictional Wetlands*, (Federal Interagency Committee for Wetland Determination, 1989), are "those areas that are inundated or saturated by surface or groundwater



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at a frequency and duration to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Jurisdictional wetlands, regulated under Section 404 of the Clean Water Act/1972, have undergone increasing regulation (Clean Water Act/1977 and 1987, Farm Bills/1985 and 1990), and are important for protection of aquatic species and waterfowl, water purification, and flood control.

The documented presence of apparent Waters of the U.S. or jurisdictional wetlands, as defined and regulated by federal authority under 33 CFR Parts 320-330 were not identified through review of the previously referenced information.

### 7.7 Limited Threatened/Endangered Species Records Review

In accordance with the CAWP, literature and agency file searches were conducted to identify the potential occurrence of federally listed threatened and endangered (T&E) species on the site. The search included information from the USFWS online database. The following table represents T&E species potentially located in Jefferson County, Alabama as recorded at the USFWS website as of the date of this assessment.

**Threatened/Endangered Species in Jefferson County**

Group	Name	Status
Clams	Orangenacre mucket ( <i>Lampsilis perovalis</i> )	Threatened
Clams	Southern acornshell ( <i>Epioblasma othcaloogensis</i> )	Endangered
Clams	Upland combshell ( <i>Epioblasma metastrata</i> )	Endangered
Clams	Finelined pocketbook ( <i>Lampsilis altilis</i> )	Threatened
Clams	Ovate clubshell ( <i>Pleurobema perovatum</i> )	Endangered
Clams	Southern clubshell ( <i>Pleurobema decisum</i> )	Endangered
Clams	Triangular Kidneyshell ( <i>Ptychobranthus greenii</i> )	Endangered
Clams	Alabama moccasinshell ( <i>Medionidus acutissimus</i> )	Threatened
Clams	Dark pigtoe ( <i>Pleurobema furvum</i> )	Endangered
Clams	Southern pigtoe ( <i>Pleurobema georgianum</i> )	Endangered
Fishes	Watercress darter ( <i>Etheostoma nuchale</i> )	Endangered
Fishes	Cahaba shiner ( <i>Notropis cahabae</i> )	Endangered
Fishes	Goldline darter ( <i>Percina aurolineata</i> )	Threatened
Fishes	Vermilion darter ( <i>Etheostoma chermocki</i> )	Endangered
Fishes	Rush Darter ( <i>Etheostoma phytophilum</i> )	Endangered
Flowering Plants	Georgia rockcress ( <i>Arabis georgiana</i> )	Candidate
Flowering Plants	Mohr's Barbara button ( <i>Marshallia mohrii</i> )	Threatened
Flowering Plants	Gentian pinkroot ( <i>Spigelia gentianoides</i> )	Endangered
Flowering Plants	Tennessee yellow-eyed grass ( <i>Xyris tennesseensis</i> )	Endangered
Flowering Plants	Georgia aster ( <i>Symphyotrichum georgianum</i> )	Candidate
Mammals	Indiana bat ( <i>Myotis sodalis</i> )	Endangered

## Phase I Environmental Site Assessment

22<sup>nd</sup> Avenue Baptist Church Lot ■ Birmingham, Alabama

December 7, 2012 ■ Terracon Project No. E1117025



Group	Name	Status
Mammals	Gray bat ( <i>Myotis grisescens</i> )	Endangered
Reptiles	Flattened musk turtle ( <i>Sternotherus depressus</i> )	Threatened
Snails	Cylindrical lioplax (snail) ( <i>Lioplax cyclostomaformis</i> )	Endangered
Snails	Plicate rocksnail ( <i>Leptoxis plicata</i> )	Endangered
Snails	Round rocksnail ( <i>Leptoxis ampla</i> )	Threatened

Based on site observations and literature and agency file searches, the property is not likely to support habitat for the listed species. Absence of documented sightings on-site or in the immediate vicinity does not ensure that T&E species are not present. The lack of documented sightings may indicate that the area has not been surveyed or did not previously contain suitable habitat. This level of investigation does not provide a habitat suitability analysis for all species with the potential to be present. However, as the entire site is paved and historically developed, the probability for suitable habitat is very low.

### 7.8 Limited Vapor Intrusion Records Review

In accordance with the CAWP, a literature review was conducted to identify the potential occurrence of vapor intrusion sources on the property. No documented evidence of a subsurface volatile plume on the site was found during the literature review. However, the site is a former gasoline filling station. Therefore vapor intrusion potential exists. Possible vapor intrusion should be evaluated at a later date when additional information on possible soil contamination by VOCs is available and future use of the property is better understood through site redevelopment planning.

### 7.9 Limited Historical Properties/Archaeological Resources Records Review

In accordance with the CAWP, literature and agency file review was conducted to identify the potential occurrence of cultural resources on the site. Cultural resources consist of both historic properties and archaeological artifacts. The review included the National Register of Historic Places and the sites listed by the Alabama Historical Commission. No obvious archaeological resources or structures of historical significance were observed on the site, and the file search did not identify cultural resources onsite.

## 8.0 DECLARATION

I, Leslie Noble, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. I have developed and performed the All

**Phase I Environmental Site Assessment**

22<sup>nd</sup> Avenue Baptist Church Lot ■ Birmingham, Alabama

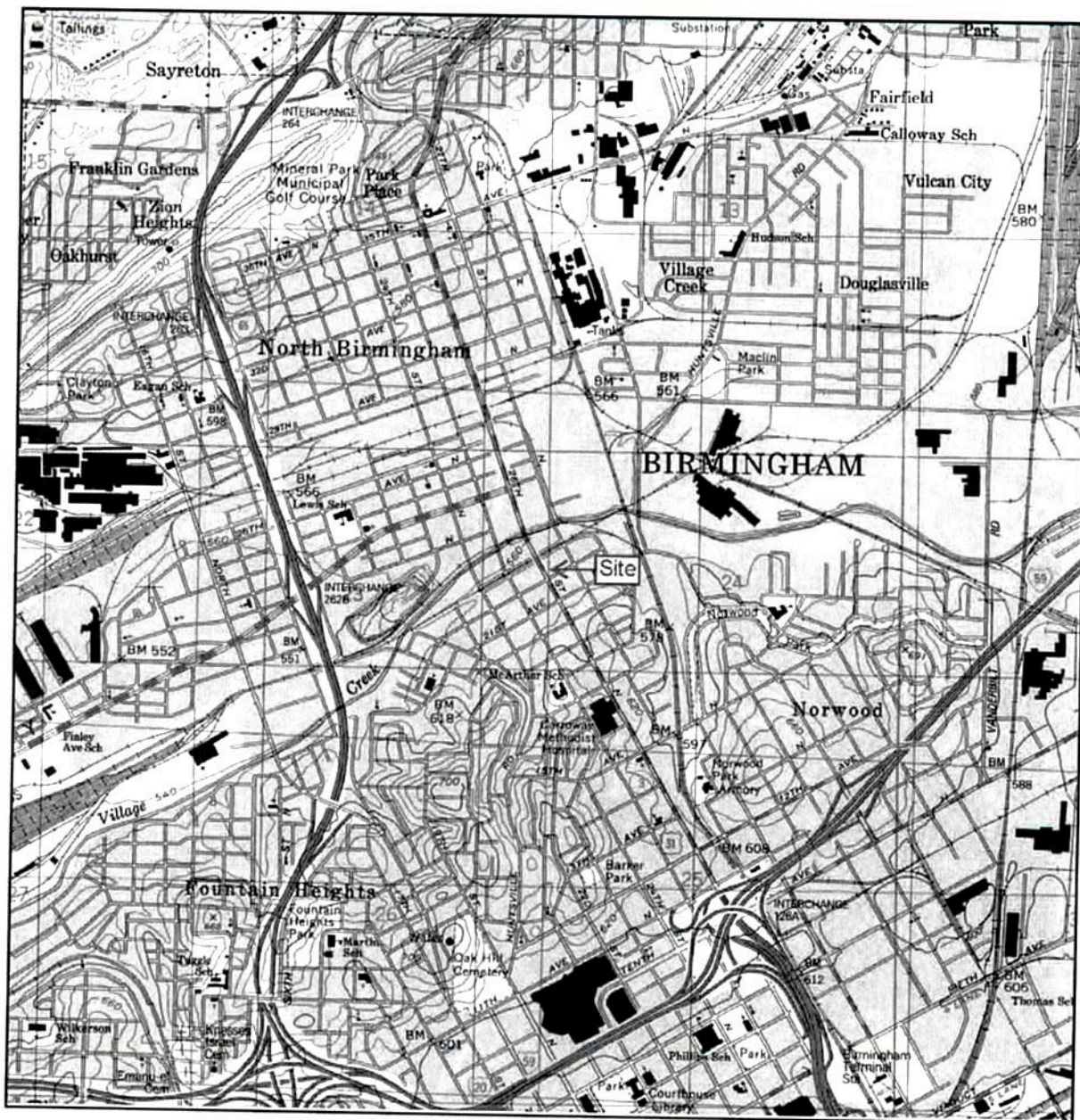
December 7, 2012 ■ Terracon Project No. E1117025




Appropriate Inquiries in conformance with the standards and practice set forth in 40 CFR Part 312.



# Historical Topographic Map



	TARGET QUAD	SITE NAME	22nd Avenue Baptist Church Lot	CLIENT: Gallet / Terracon, Inc.
	NAME: BIRMINGHAM NORTH			
	MAP YEAR: 1997	ADDRESS:	2614 22nd Avenue North Birmingham, AL 35234	CONTACT: Maggie Weems
	SERIES: 7.5			
	SCALE: 1:24000	LAT/LONG:	33.5426 / -86.8135	INQUIRY#: 3408185.22
				RESEARCH DATE: 09/11/2012

## PROJECT

Phase I Environmental Site Assessment  
22<sup>nd</sup> Avenue Baptist Church Lot  
2614 22<sup>nd</sup> Avenue North  
Birmingham, Jefferson County, Alabama  
Parcel ID No. 22-24-2-008-003.000  
Acres ID. No. 152462

USEPA Cooperative Agreement No. BF-95460310-0  
Terracon Project Number: E1117025

## APPENDIX A: FIGURE 1

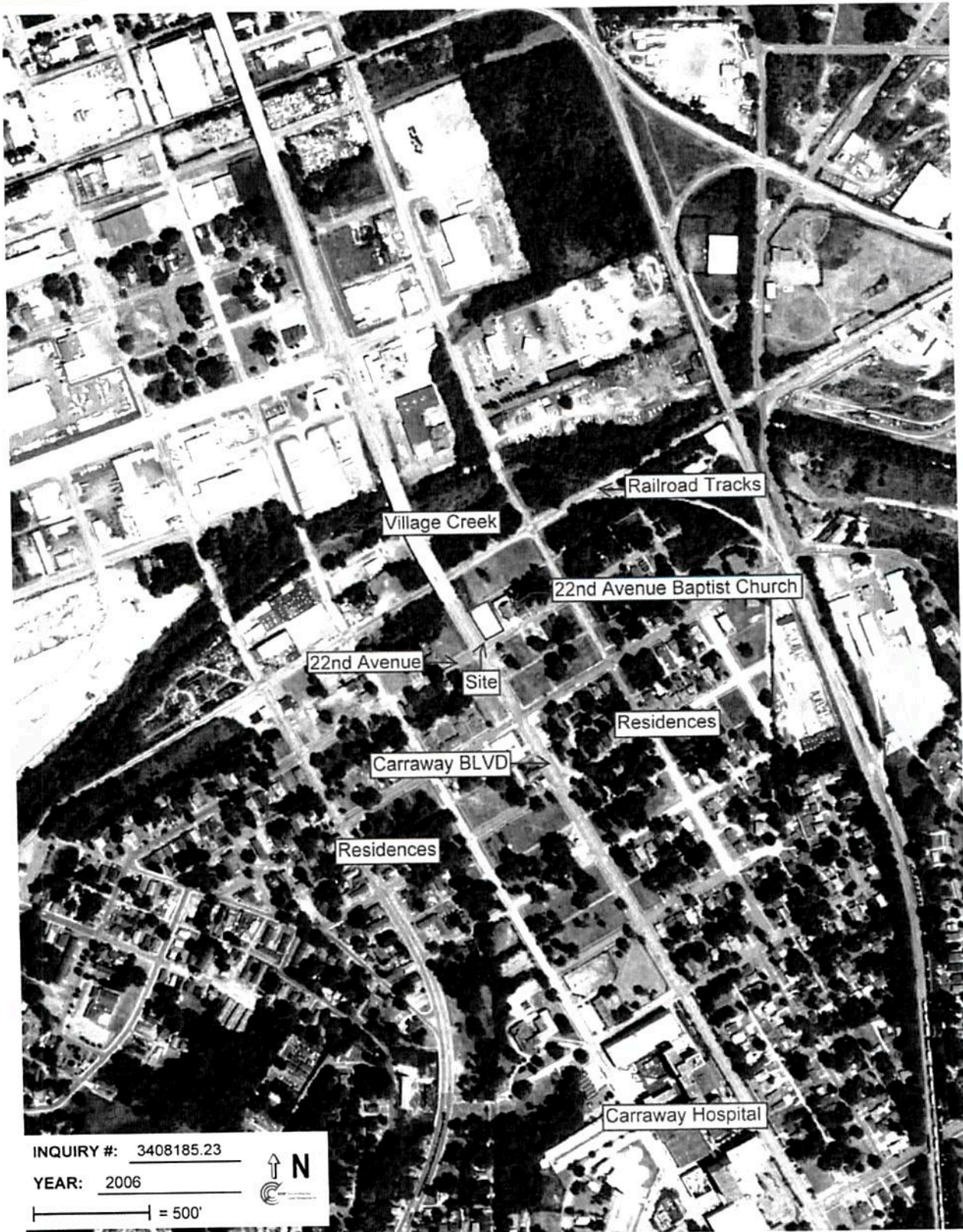
### Topographic Map

USGS 7.5-Minute Topographic Quadrangle  
Birmingham North, Alabama dated 1997  
Section 24, Township 17 South, Range 3 West

Scale As Noted

# Terracon





#### PROJECT

Phase I Environmental Site Assessment  
 22<sup>nd</sup> Avenue Baptist Church Lot  
 2614 22<sup>nd</sup> Avenue North  
 Birmingham, Jefferson County, Alabama  
 Parcel ID No. 22-24-2-008-003.000  
 Acres ID. No. 15

USEPA Cooperative Agreement No. BF-95460310-0  
 Terracon Project Number: E1117025

#### APPENDIX A: FIGURE 2

Site Vicinity Map

Scale As Noted

**Terracon**



### Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or as binding agents in construction materials. Inhalation of asbestos fibers has been documented to cause asbestosis (scarring of the lung), lung cancer, and mesothelioma (a cancer of the chest wall lining).</p> <p>Most Federal and State agencies define ACM as a material containing more than one (1) percent asbestos, although some states, such as California, define ACM as material containing 0.1% or more asbestos. In order to determine the ACM status of suspect building materials, a minimum number of samples must be collected and analyzed, depending on the type and quantity of the suspect material. A suspect material can only be confirmed as non-ACM when analytical results of all required samples are below applicable regulatory limits. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. An asbestos containing material may be classified as either friable or non-friable. Friable materials are those that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM are materials in which the asbestos fibers are more firmly bound in a matrix of tar, plastic or other such material, and which have a lower potential for asbestos fiber release.</p> <p>Federal and State regulations require that an asbestos survey be performed prior to renovation, dismantling, demolition or other activities that may disturb suspect or confirmed ACM unless such materials are removed as ACM prior to planned disturbances. ACM removal may also be required if confirmed ACM becomes damaged, or if renovation or demolition activities could result in damage to confirmed or suspect ACM. Depending upon the quantity, notification to Federal or State regulatory agencies may be required prior to ACM removal (abatement) operations. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with applicable federal, state, or local regulations. OSHA worker protection regulations will also apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Above Ground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
AULs	Activity and Use Limitations
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethyl benzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CFR	Code of Federal Regulations
CESQG	Conditionally exempt small quantity generators.
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment



### Description of Terms and Acronyms (cont.)

Term/Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term does not include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
IC / EC	Industrial Controls / Engineering Controls
ILP	Innocent Landowner Program
IOP	Innocent Owner/Operator Program
LQG	Large quantity generators.
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a groundwater cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NGVD	National Geodetic Vertical Datum
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	National Priorities List, as more particularly described under the Records Review section of this report.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/l	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)

### Description of Terms and Acronyms (cont.)

Term/Acronym	Description
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and groundwater. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA generators list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 5.0 of this report.
RCRA CORRACTS/TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials, which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities, which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E 1527-05 as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property." The term includes hazardous substances or petroleum products even under conditions of compliance with laws. The term is not intended to include <i>de minimis</i> conditions that generally do not present a material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small quantity generators.
SWF	Solid Waste Facility. Landfills listed by a state database.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers



### Description of Terms and Acronyms (cont.)

Term/Acronym	Description
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E 1527-05, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
Wetlands	<p>Areas that are typically saturated with surface or groundwater that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>



### Description of Terms and Acronyms (cont.)

Alabama Term/Acronym	Description
SHWS	The Alabama Department of Environmental Management (ADEM) maintains a database of state equivalent CERCLIS facilities in the state of Alabama.
SWF/LF	State and/or Tribal database of solid waste facilities located within Alabama. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
LUST	State and/or Tribal database of leaking underground storage tanks in the state of Alabama.
UST	State and/or Tribal database of registered storage tanks in the State of Alabama which may include the owner and location of the tanks.
IC	Institutional Controls (ICs) are non-engineered instruments, such as administrative and/or legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of a remedy by limiting land or resource use performed by ADEM.
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
Brownfields	State and/or Tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.

**22nd Avenue Baptist Church Lot**

2614 22nd Avenue North

Birmingham, AL 35234

Inquiry Number: 3408185.22

September 11, 2012

## EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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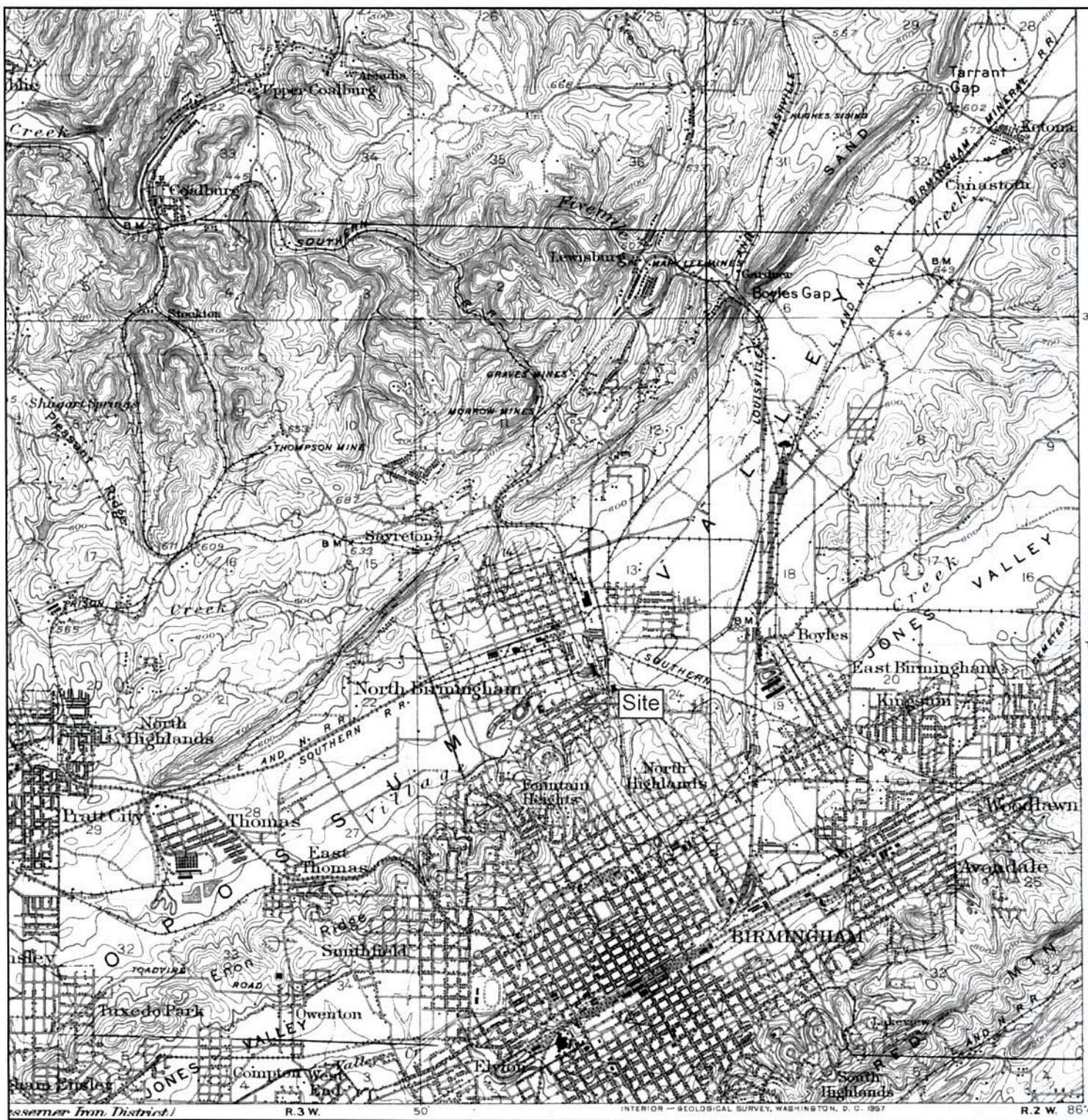
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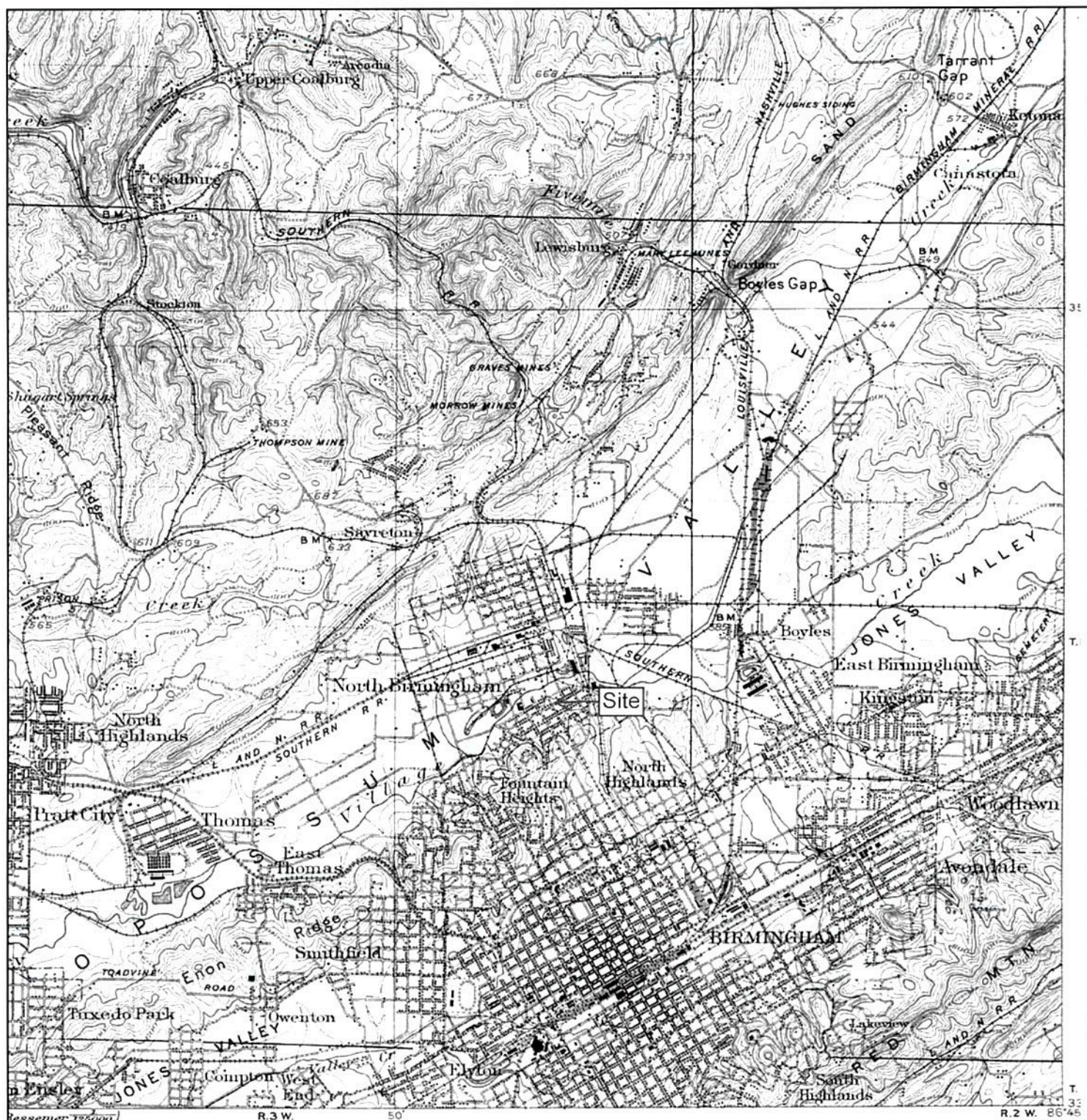
# Historical Topographic Map



<div style="text-align: center;"> <b>N</b>   </div>	TARGET QUAD	SITE NAME:	22nd Avenue Baptist Church Lot	CLIENT:	Gallet / Terracon, Inc.
	NAME: BIRMINGHAM COAL DISTRICT	ADDRESS:	2614 22nd Avenue North Birmingham, AL 35234	CONTACT:	Maggie Weems
	MAP YEAR: 1904	LAT/LONG:	33.5426 / -86.8135	INQUIRY#:	3408185.22
	SERIES: 15			RESEARCH DATE:	09/11/2012
	SCALE: 1:62500				



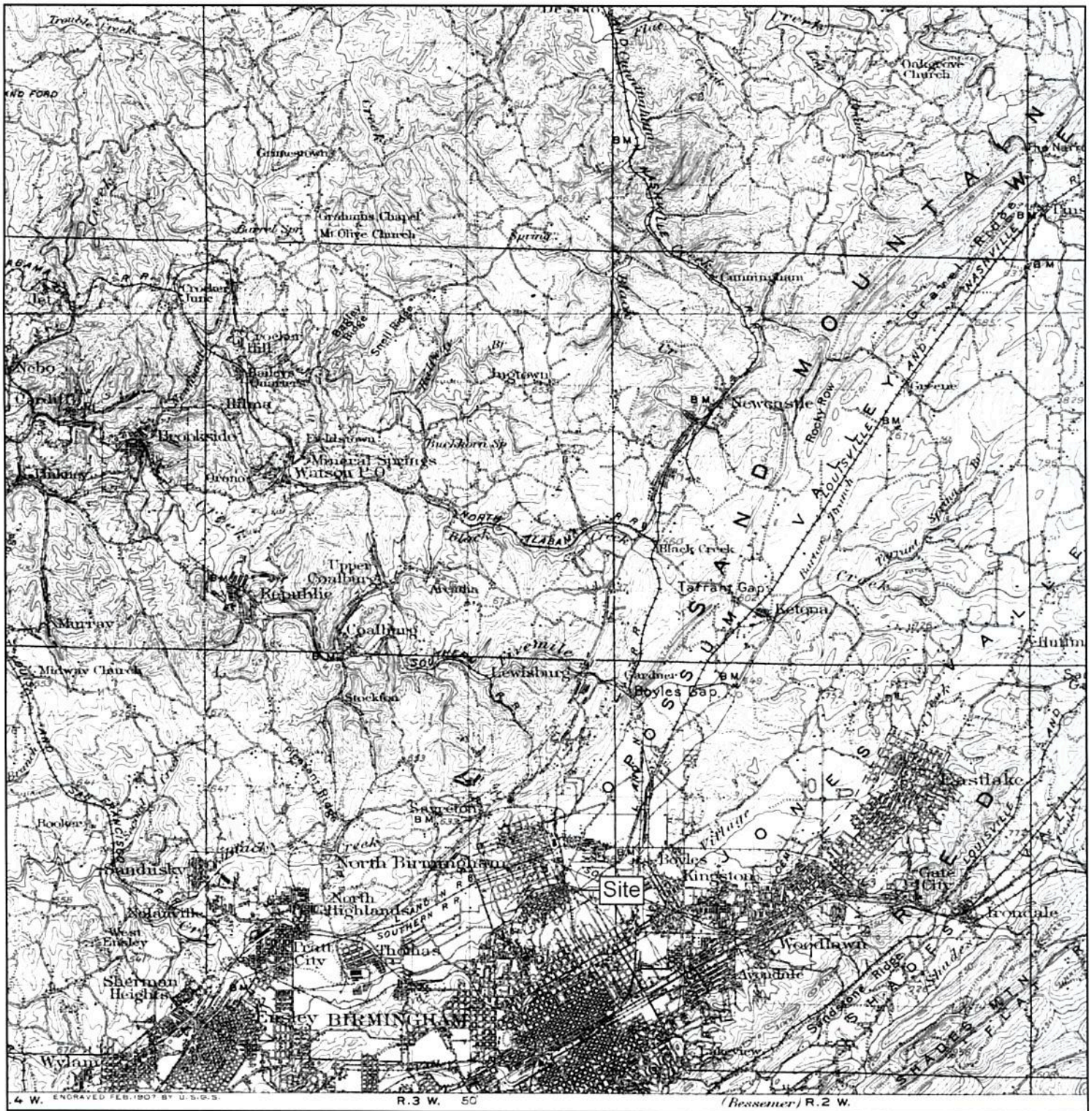
# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: BIRMINGHAM SPECIAL MAP YEAR: 1906  SERIES: 15 SCALE: 1:62500</p>	<p>SITE NAME: 22nd Avenue Baptist Church Lot ADDRESS: 2614 22nd Avenue North Birmingham, AL 35234 LAT/LONG: 33.5426 / -86.8135</p>	<p>CLIENT: Gallet / Terracon, Inc. CONTACT: Maggie Weems INQUIRY#: 3408185.22 RESEARCH DATE: 09/11/2012</p>
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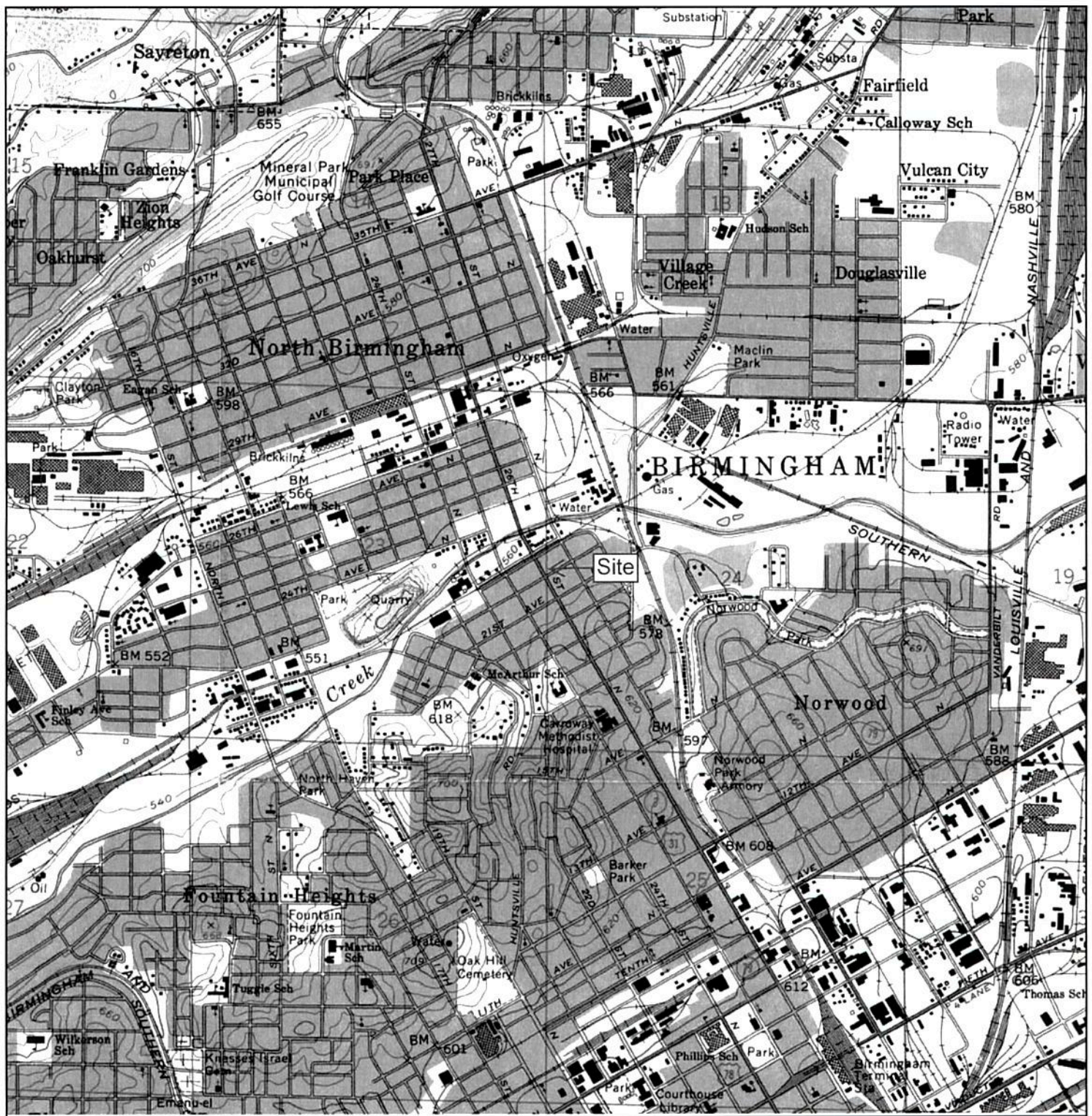
# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: BIRMINGHAM MAP YEAR: 1907  SERIES: 30 SCALE: 1:125000</p>	<p>SITE NAME: 22nd Avenue Baptist Church Lot ADDRESS: 2614 22nd Avenue North Birmingham, AL 35234 LAT/LONG: 33.5426 / -86.8135</p>	<p>CLIENT: Gallet / Terracon, Inc. CONTACT: Maggie Weems INQUIRY#: 3408185.22 RESEARCH DATE: 09/11/2012</p>
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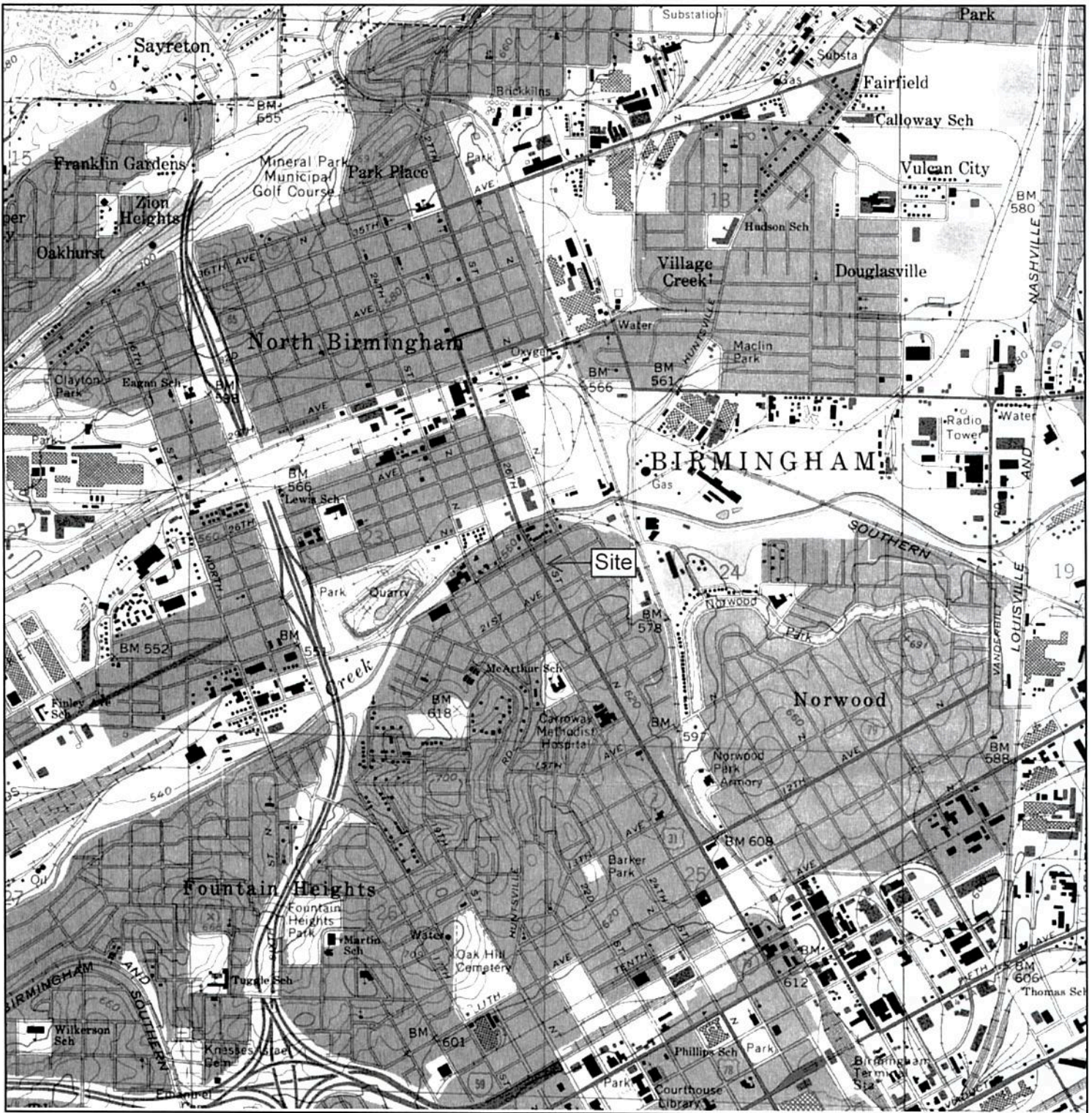
# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: BIRMINGHAM NORTH MAP YEAR: 1959</p> <p>SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: 22nd Avenue Baptist Church Lot</p> <p>ADDRESS: 2614 22nd Avenue North Birmingham, AL 35234</p> <p>LAT/LONG: 33.5426 / -86.8135</p>	<p>CLIENT: Gallet / Terracon, Inc.</p> <p>CONTACT: Maggie Weems</p> <p>INQUIRY#: 3408185.22</p> <p>RESEARCH DATE: 09/11/2012</p>
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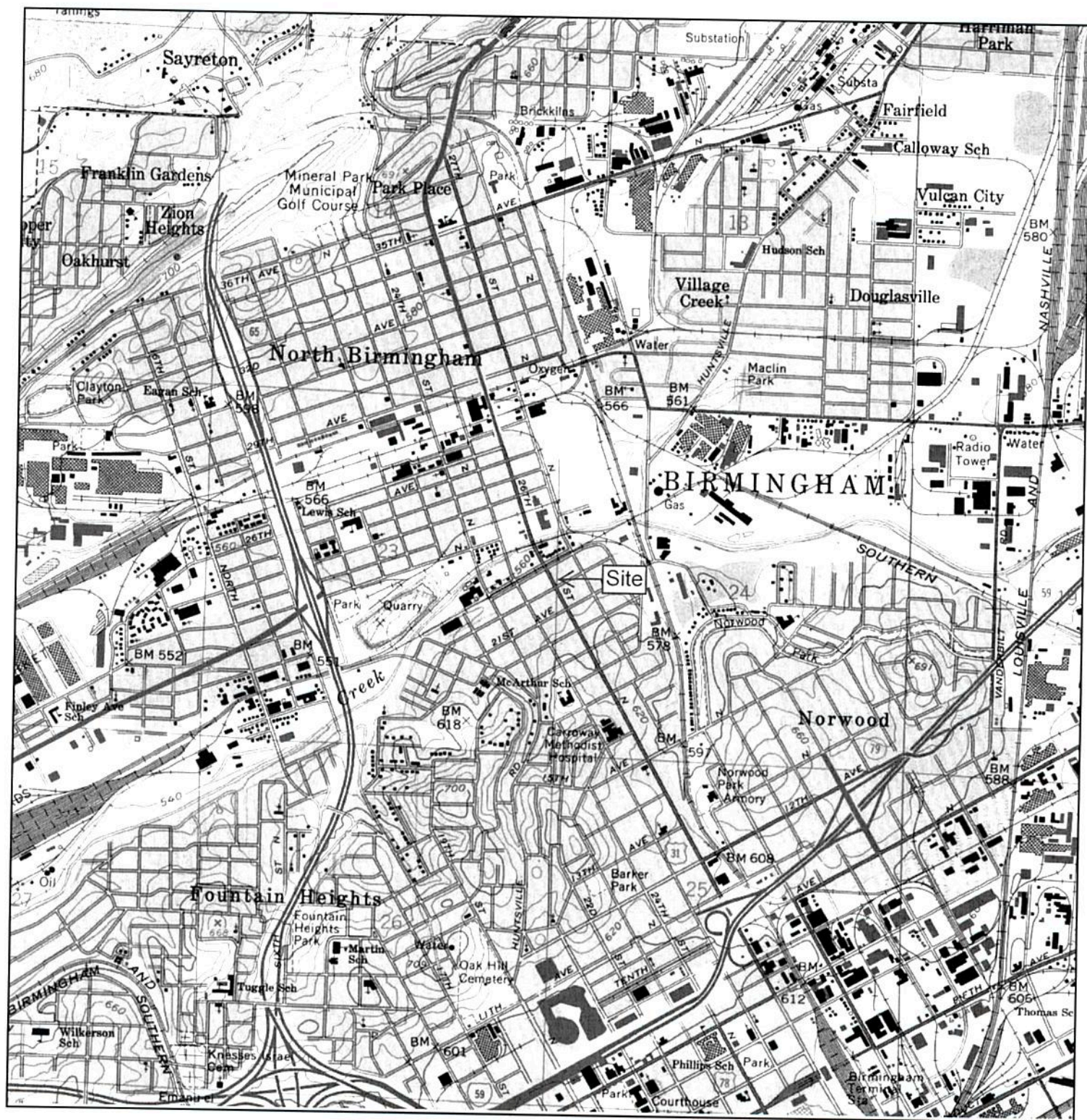
# Historical Topographic Map



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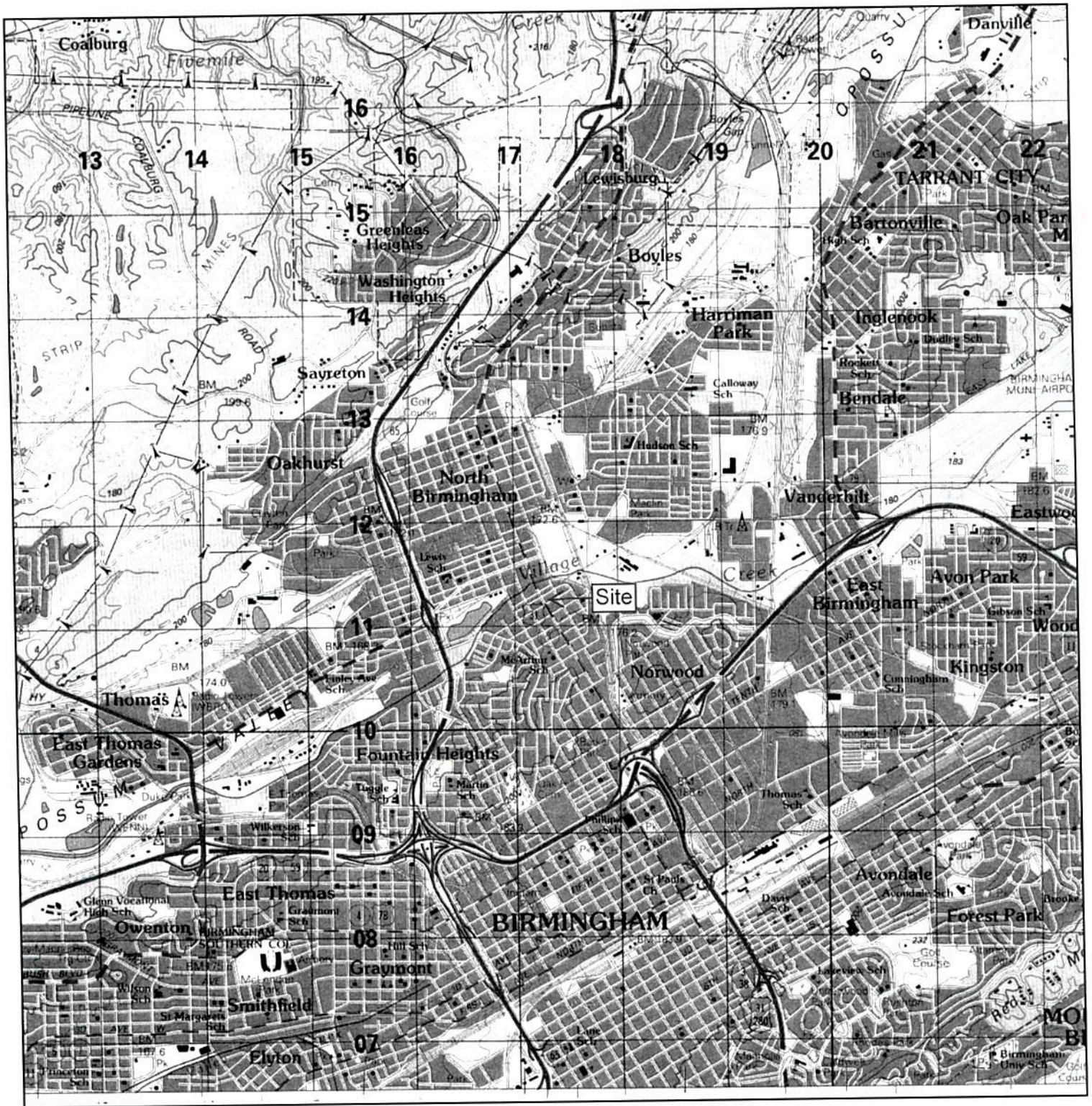
# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: BIRMINGHAM NORTH MAP YEAR: 1978 PHOTOREVISED FROM :1959 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: 22nd Avenue Baptist Church Lot ADDRESS: 2614 22nd Avenue North Birmingham, AL 35234 LAT/LONG: 33.5426 / -86.8135</p>	<p>CLIENT: Gallet / Terracon, Inc. CONTACT: Maggie Weems INQUIRY#: 3408185.22 RESEARCH DATE: 09/11/2012</p>
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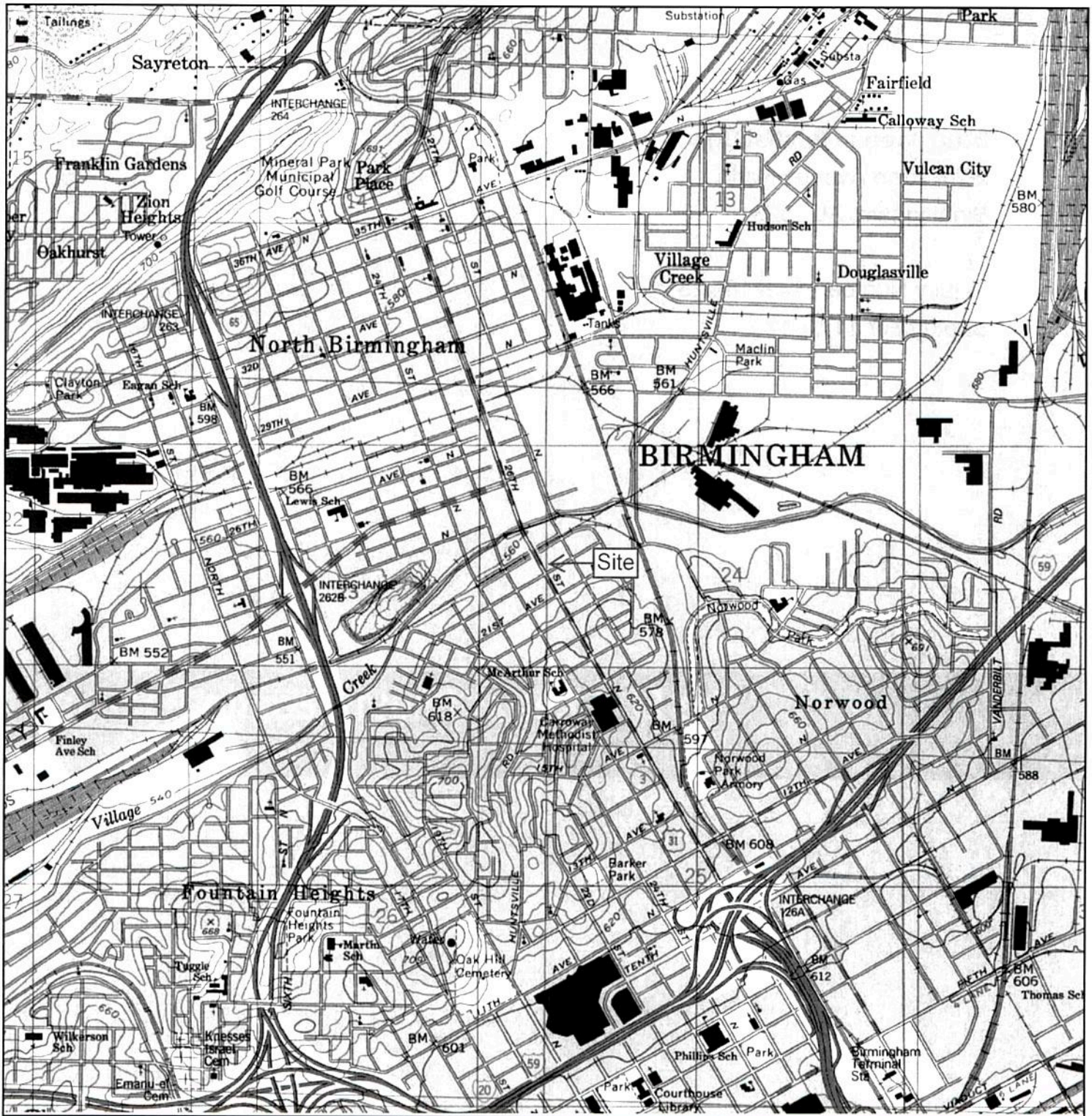
# Historical Topographic Map



<div data-bbox="121 1795 154 1837" data-label="Image"> </div>	<p>TARGET QUAD NAME: GARDENDALE MAP YEAR: 1987</p>	<p>SITE NAME: 22nd Avenue Baptist Church Lot ADDRESS: 2614 22nd Avenue North Birmingham, AL 35234 LAT/LONG: 33.5426 / -86.8135</p>	<p>CLIENT: Gallet / Terracon, Inc. CONTACT: Maggie Weems INQUIRY#: 3408185.22 RESEARCH DATE: 09/11/2012</p>
	<p>SERIES: 15 SCALE: 1:50000</p>		



# Historical Topographic Map



<div data-bbox="73 1774 105 1879"> <p>N ↑</p> </div> <p>TARGET QUAD NAME: BIRMINGHAM NORTH MAP YEAR: 1997</p> <p>SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: 22nd Avenue Baptist Church Lot</p> <p>ADDRESS: 2614 22nd Avenue North Birmingham, AL 35234</p> <p>LAT/LONG: 33.5426 / -86.8135</p>	<p>CLIENT: Gallet / Terracon, Inc.</p> <p>CONTACT: Maggie Weems</p> <p>INQUIRY#: 3408185.22</p> <p>RESEARCH DATE: 09/11/2012</p>
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**22nd Avenue Baptist Church Lot**

2614 22nd Avenue North

Birmingham, AL 35234

Inquiry Number: 3408185.23

September 11, 2012

## The EDR Aerial Photo Decade Package



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



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with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography September 11, 2012

**Target Property:**

2614 22nd Avenue North

Birmingham, AL 35234

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1941	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: February 17, 1941	EDR
1947	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: March 22, 1947	EDR
1951	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: March 09, 1951	EDR
1956	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: January 08, 1956	EDR
1967	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: October 11, 1967	EDR
1970	Aerial Photograph. Scale: 1"=750'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: February 21, 1970	EDR
1977	Aerial Photograph. Scale: 1"=1000'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: March 25, 1977	EDR
1981	Aerial Photograph. Scale: 1"=1000'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: February 24, 1981	EDR
1988	Aerial Photograph. Scale: 1"=1000'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: May 26, 1988	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 33086-E7, Birmingham North, AL./Flight Date: February 28, 1992	EDR
1997	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Composite DOQQ - acquisition dates: March 06, 1997	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 33086-E7, Birmingham North, AL./Flight Year: 2006	EDR





INQUIRY #: 3408185.23

YEAR: 1941

| = 500'







INQUIRY #: 3408185.23

YEAR: 1947

| = 500'







INQUIRY #: 3408185.23

YEAR: 1951

| = 500'







INQUIRY #: 3408185.23

YEAR: 1956

| = 500'







INQUIRY #: 3408185.23

YEAR: 1967

| = 500'







Site

INQUIRY #: 3408185.23

YEAR: 1970

| = 750'







INQUIRY #: 3408185.23

YEAR: 1977

1000'







INQUIRY #: 3408185.23

YEAR: 1981

| = 1000'







INQUIRY #: 3408185.23

YEAR: 1988

| = 1000'







INQUIRY #: 3408185.23

YEAR: 1992

| = 750'







INQUIRY #: 3408185.23

YEAR: 1997

| = 500'







INQUIRY #: 3408185.23

YEAR: 2006

| = 500'

